

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/041214 A1**

(51) International Patent Classification<sup>7</sup>:  
C08L 23/06

H01B 3/44,

(74) Agents: GIANNESI, Pier, Giovanni et al.; Pirelli & C. S.p.A., Viale Sarca, 222, I-20126 Milano (IT).

(21) International Application Number:  
PCT/EP2003/010812

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:  
30 September 2003 (30.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): PIRELLI & C. S.p.A. [IT/IT]; Via Gaetano Negri, 10, I-20123 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): CASTELLANI, Luca [IT/IT]; Pirelli LABS S.p.A., Viale Sarca, 222, I-20126 Milano (IT). PELIZZONI, Andrea [IT/IT]; Pirelli LABS S.p.A., Viale Sarca, 222, I-20126 Milano (IT). PERUZZOTTI, Franco [IT/IT]; Pirelli LABS S.p.A., 222, Viale Sarca, I-20126 Milano (IT). ALBIZZATI, Enrico [IT/IT]; Pirelli LABS S.p.A., Viale Sarca, 222, I-20126 Milano (IT).

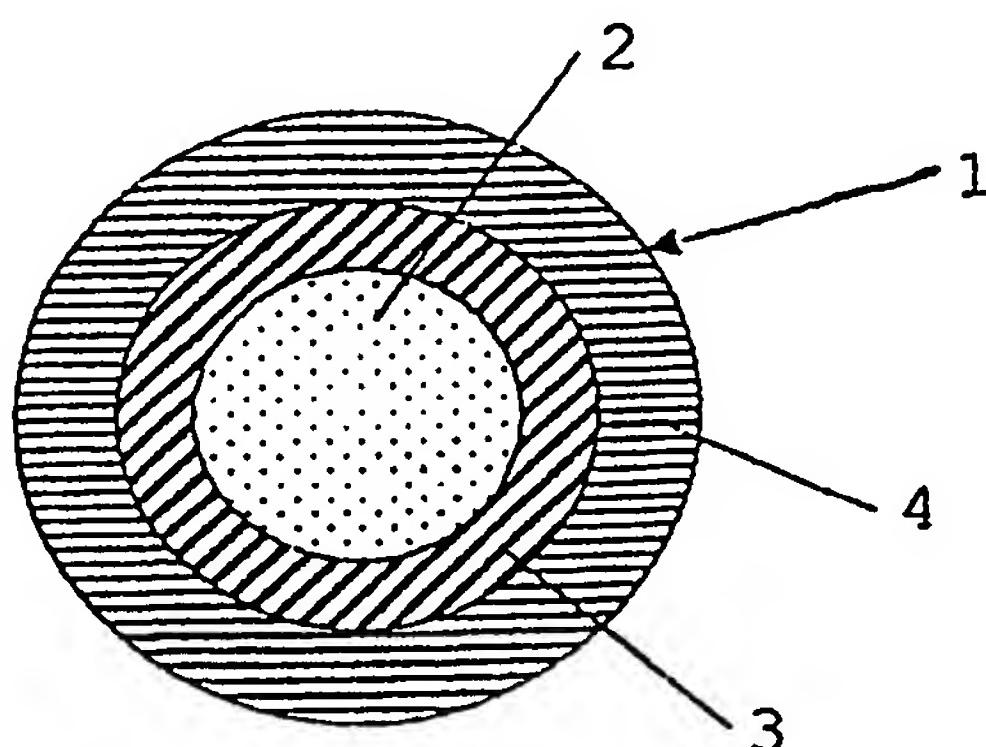
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CABLE WITH A COATING LAYER MADE FROM A WASTE MATERIAL



(57) Abstract: Cable including at least one core comprising at least one transmissive element and at least one coating layer made from a coating material, wherein said coating material comprises: - at least a first polyethylene having a density not higher than 0.940 g/cm<sup>3</sup>, preferably not lower than 0.910 g/cm<sup>3</sup>, more preferably of between 0.915 g/cm<sup>3</sup> and 0.938 g/cm<sup>3</sup>, and a Melt Flow Index (MFI), measured at 190°C with a load of 2.16 Kg according to ASTM D1238-00 standard, of between 0.05 g/10' and 2 g/10', preferably of between 0.1 g/10' and 1 g/10', said first polyethylene being obtained from a waste material; - at least a second polyethylene having a density higher than 0.940 g/cm<sup>3</sup>, preferably not higher than 0.970 g/cm<sup>3</sup>, more preferably of between 0.942 g/cm<sup>3</sup> and 0.965 g/cm<sup>3</sup>. Preferably, said coating layer is a cable external layer having a protective function.

WO 2005/041214 A1